

FIG. 1

ANCESTRAL TRACE FOR AMISH STUDY BIPOLAR PEDIGREES

PROGENITOR
CIRCA 1750

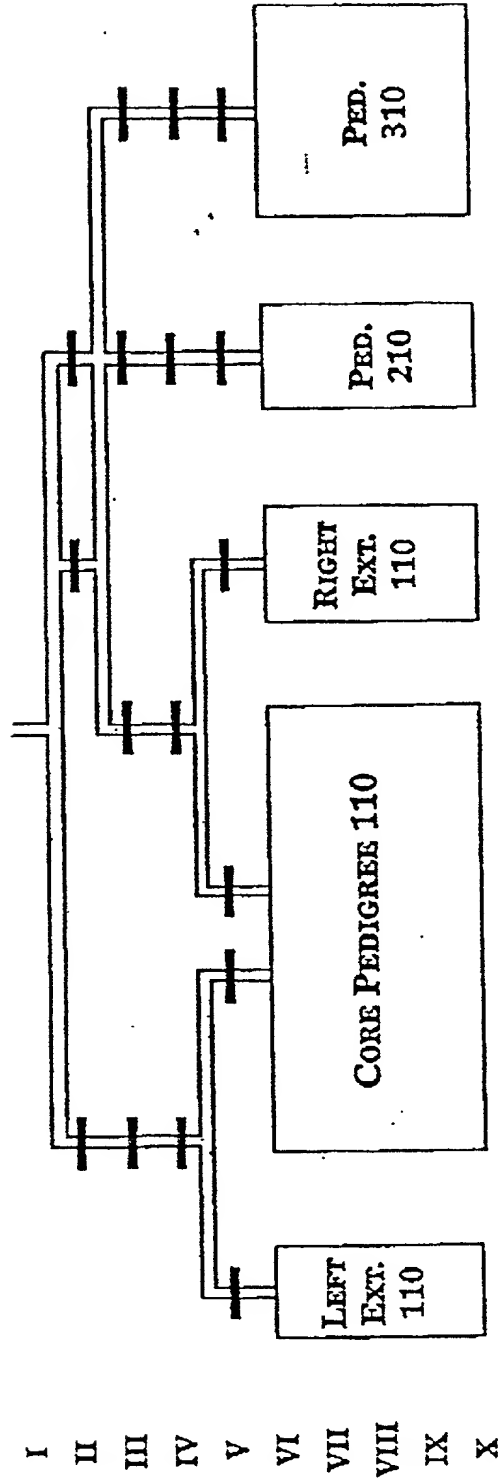
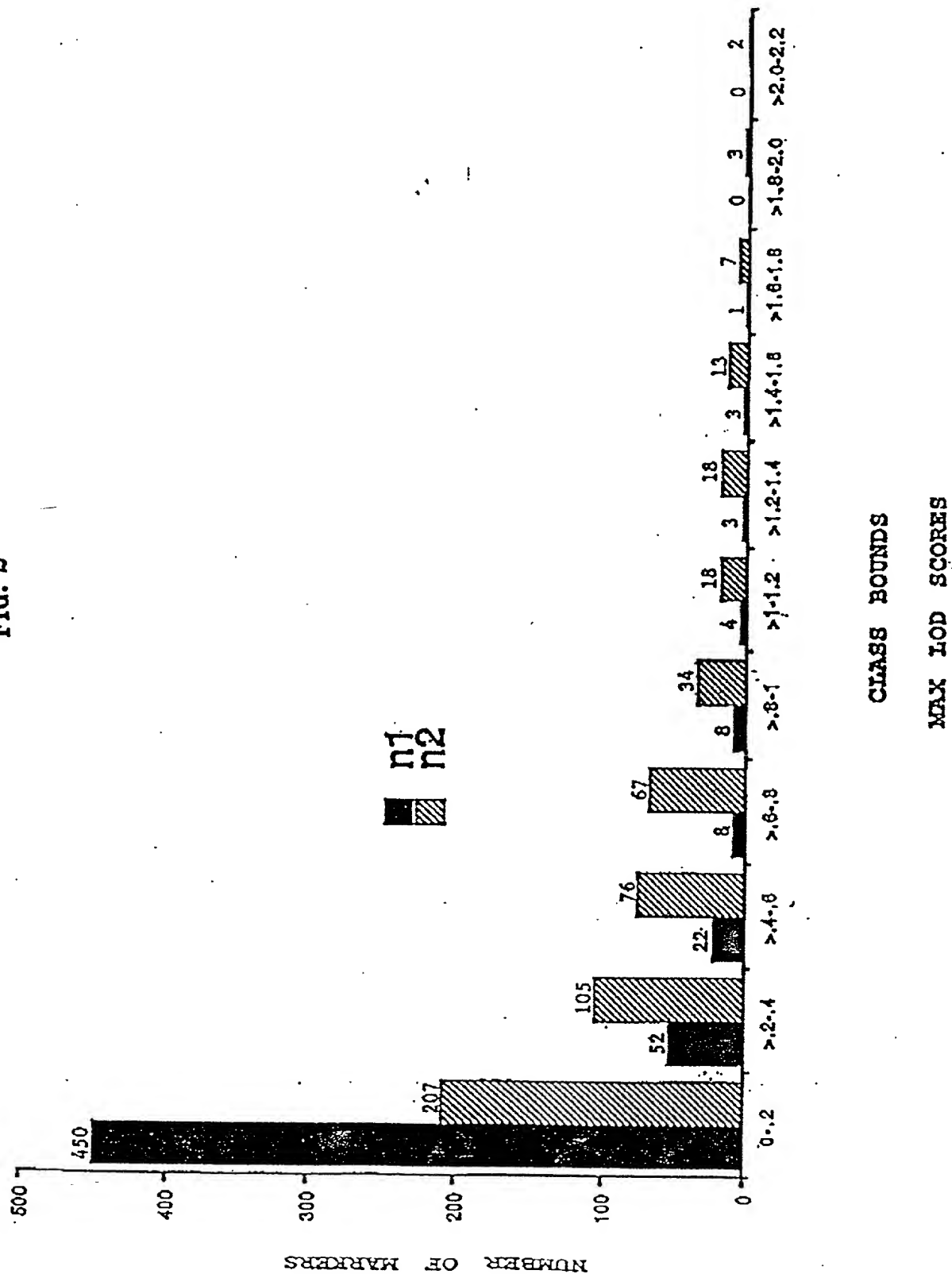
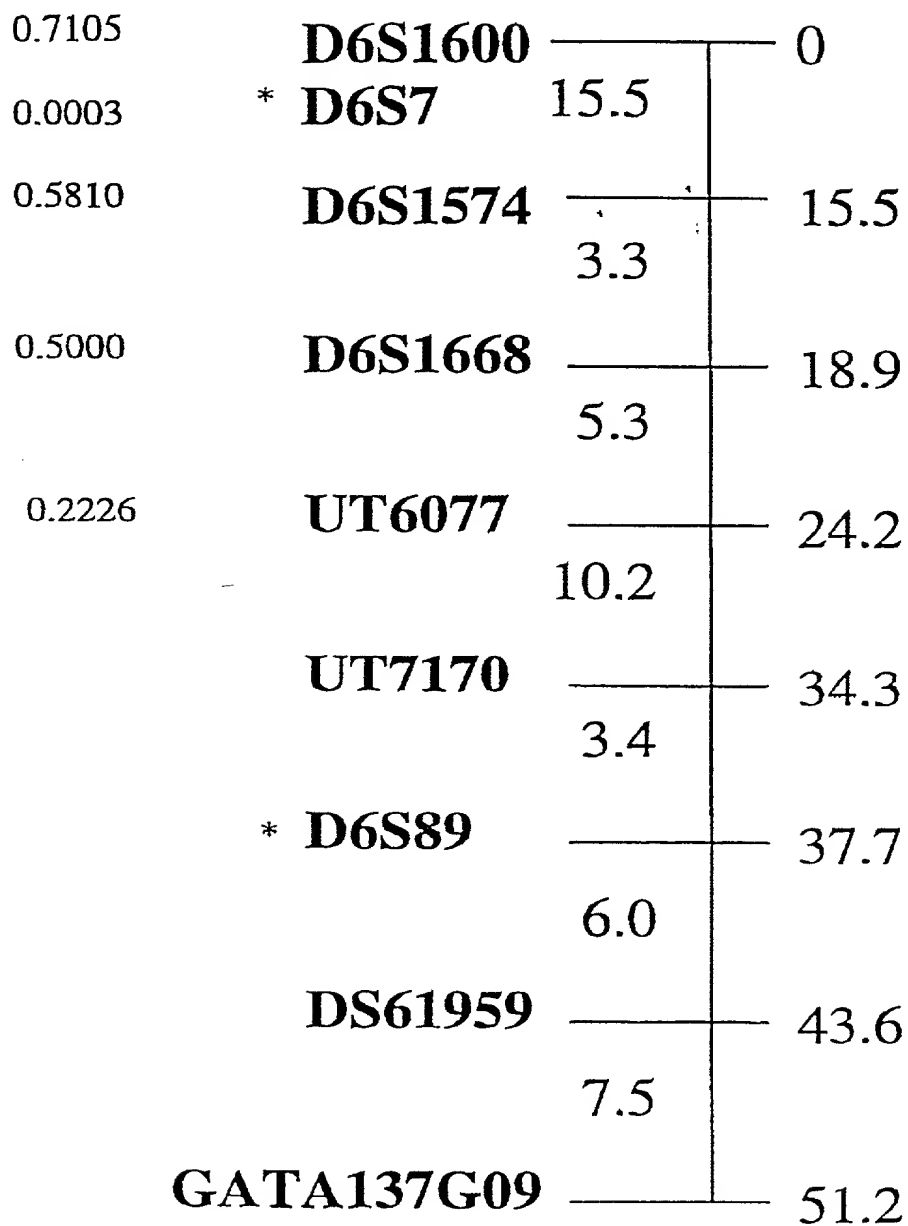


FIG. 2



SIBPAL

P



* = NG markers/values

Figure 3

SIBPAL P

	D13S56h1	0.0	0.0
	D13S56h2	0.0	0.0
0.0865	* D13S291	11.6	11.6
	D13S37	6.8	
	GATA125CO4	18.4	
0.0171	* D13S218	2.8	
0.4336	D13S894	21.2	
		6.1	
0.0003	* D13S1m	27.3	
		0.0	
	* D13S1t	27.3	
		5.2	
0.4905	* D13S171	32.5	
		3.8	
0.1593	D13S260	36.3	
		10.4	
	D13S221	46.7	
		6.5	
	D13S232	53.2	

Figure 4

SIBPAL P

	D15S114		0.0
		11.1	
0.1449	299yf		11.1
		5.8	
0.0411	D15S131		16.8
		7.8	
0.2091	D15S153		24.6
		7.6	
0.0114	* D15S36		32.2
0.0003	* D15S45		
0.0433	D15S159	1.5	
0.0217	* D15S148		33.6
0.1020	135yc		
	D15S1033	1.4	35.0
	D15S150		
	D15S38	1.7	
	* D15S117		36.7
		5.6	
	GATA153F11		42.3
		5.1	
	D15S962		47.4
	D15S48ml		
		1.2	
	189yc		48.6
		2.4	

Figure 5

SIBPAL P value

	D4S412		0.0
0.5241	✓ D4S2935	13.6	13.6
		1.2	
	D4S431		14.8
	✓ D4S431a	0.9	15.7
0.0002	✓ D4S2366	1.0	16.7
		3.2	
	D4S394a		19.8
0.0015	✓ D4S3007	2.1	
0.0035	✓ D4S394		21.9
0.0000	✓ D4S2949	9.4	31.3
		2.5	
0.0626	✓ D4S1605		
0.0005	✓ D4S1582		33.8
	D4S107m	0.5	
	✓ D4S403		34.3
		7.6	
0.0002	✓ D4S419		41.9
		6.2	
0.0004	✓ D4S404		48.1
		6.6	
	D4S391		54.7
		12.1	
	D4S405		66.8

Figure 6

SIBPAL P

	D4S100	7.4	0.0
	D4S406	3.9	7.4
	D4S1611		
	D4S101t		
	UT7739	3.7	11.4
	D4S1573	2.6	15.0
<0.0001	D4S402	1.2	17.6
0.0001	D4S109		
	D4S427	8.6	18.9
	D4S1615	8.4	27.5
	D4S2959	5.6	35.9
	D4S1576	4.5	41.5
	D4S422	1.4	46.0
	D4S2423	1.8	47.4
<0.0001	D4S422a	2.6	49.2
<0.0001	D4S175		
	D4S397		
	D4S3334	2.5	51.8
	D4S1644	3.4	54.3
	D4S192		
	D4S1565		
	UT2147	2.7	57.7
0.0003	D4S424	2.2	60.4
	D4S420		
	D4S1625	4.8	62.6
	UT1264	15.3	67.3
	D4S413		82.7
	GATA8A05		

Figure 7

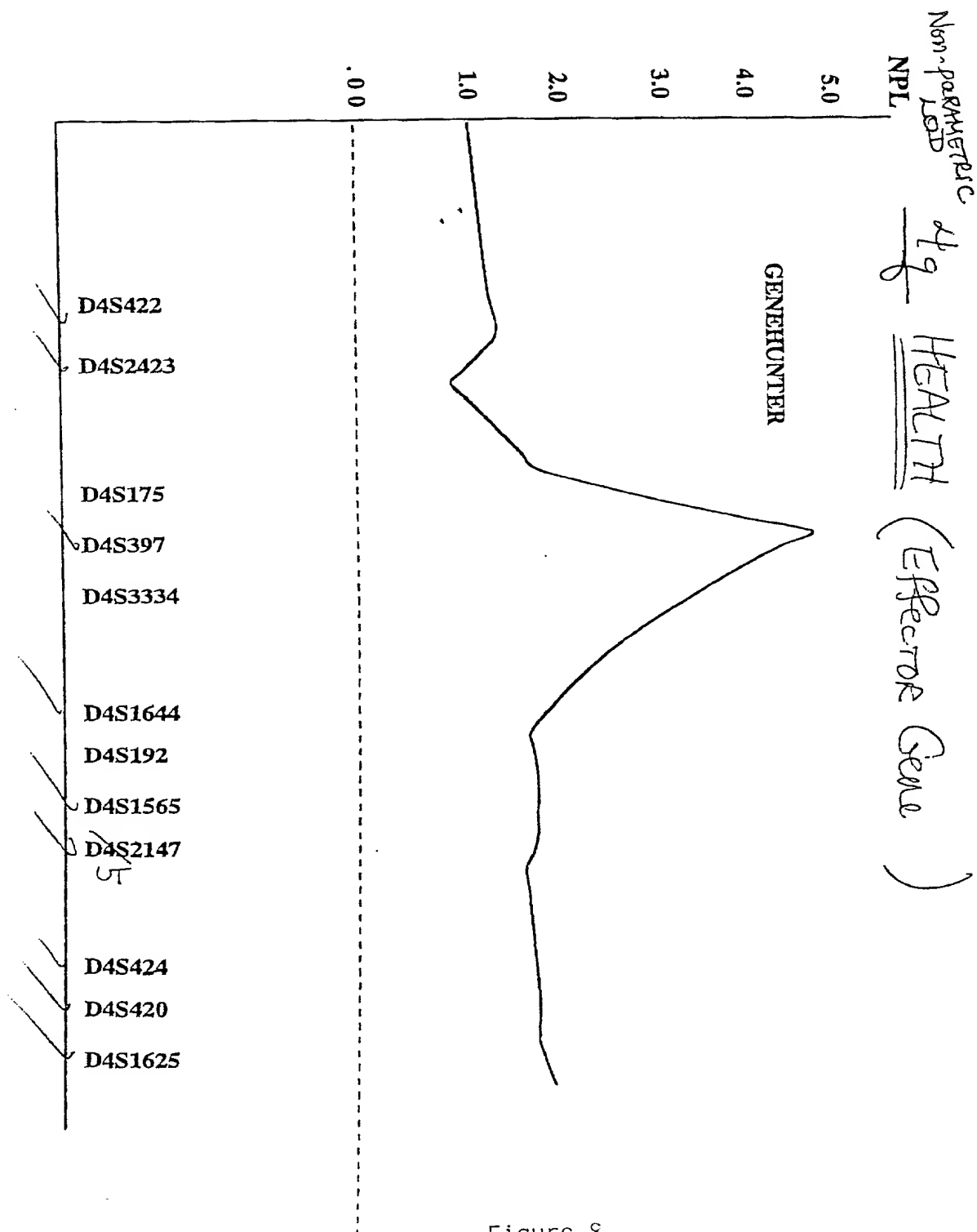


Figure 8

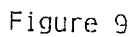


FIGURE 1. Genetic, Physical, and Transcription Unit Mapping of the Clock Locus

AMISH STUDY BIPOLAR PEDIGREE EXTENSIONS

PROGENITOR

1700-1750

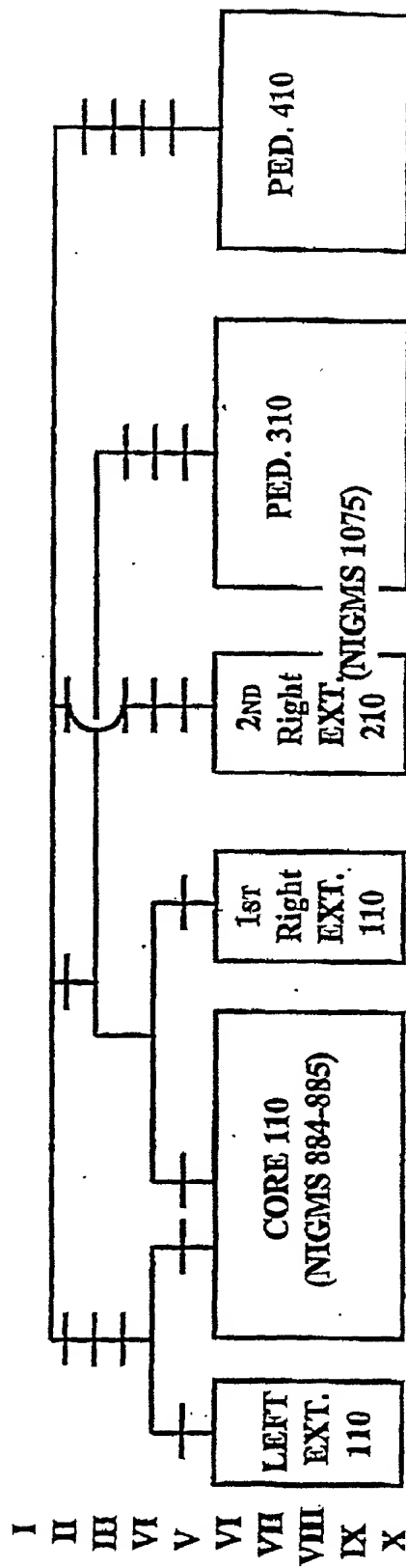


Figure 10

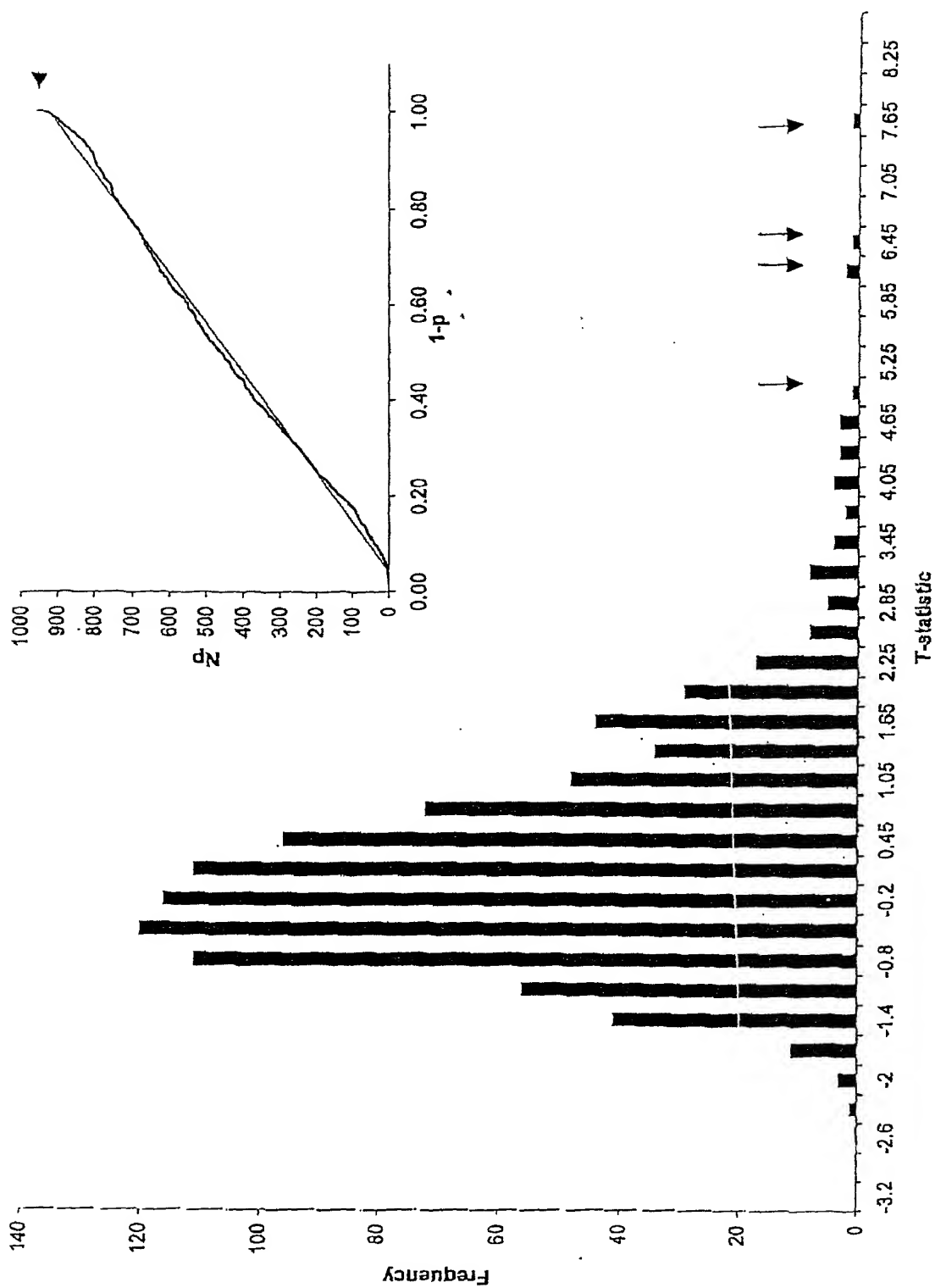


Figure 11

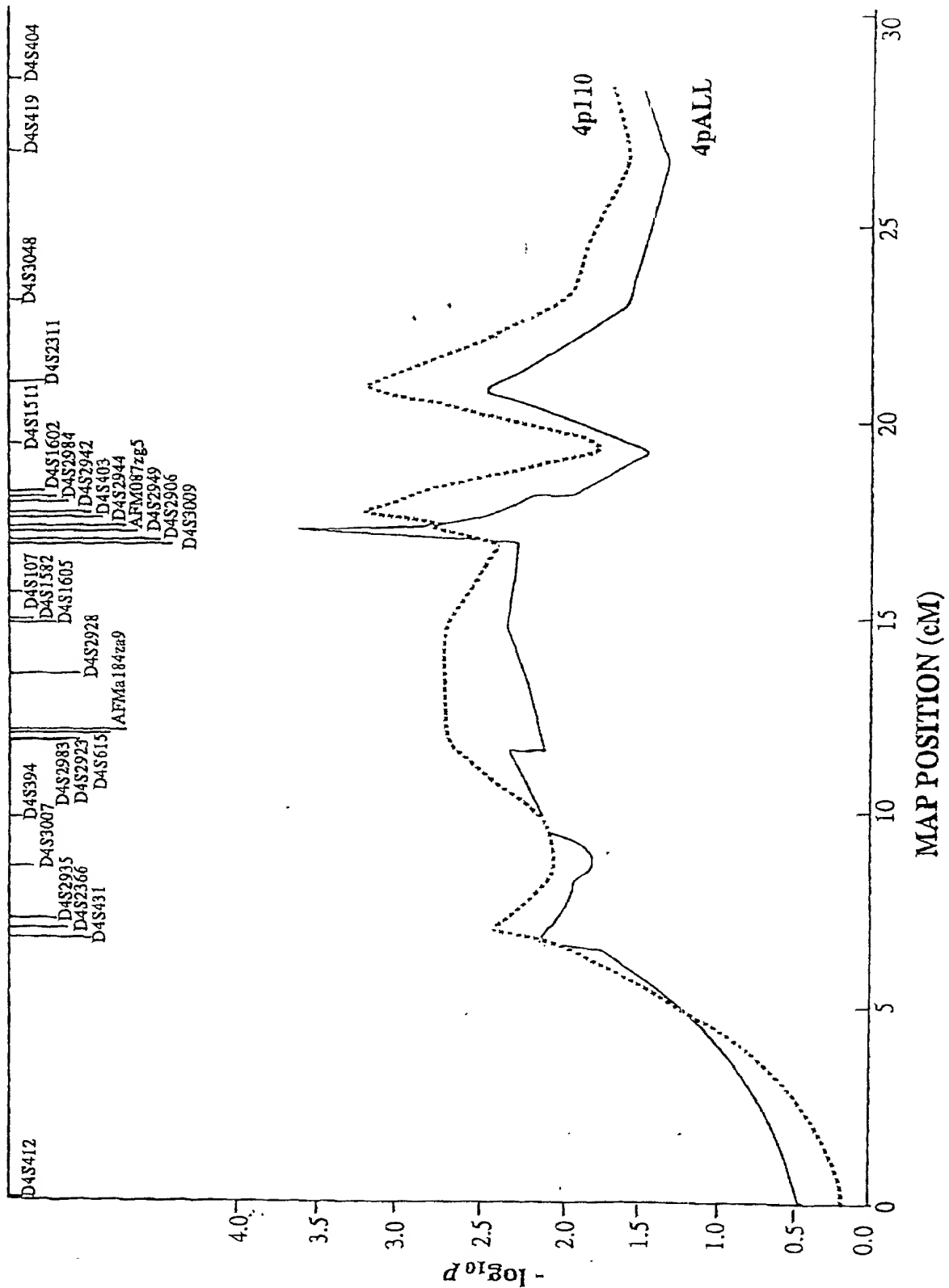


Figure 12A

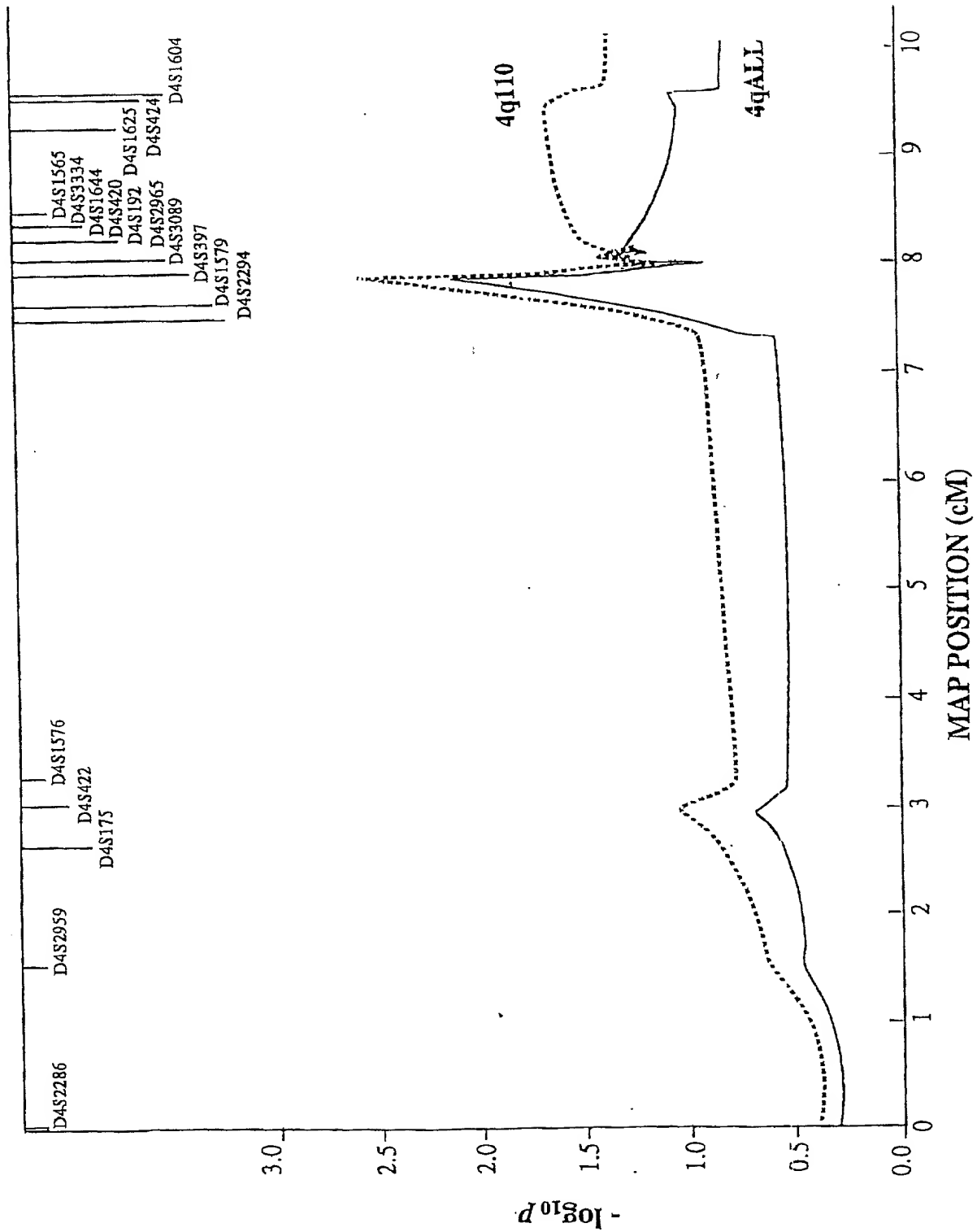


Figure 12B